Pre-Design Inspection Summary Report

Revision 0

Artistic Printing

Former Vermiculite Intermountain Facility-SLC2

Salt Lake City, Utah

Libby Sister Sites (Asbestos Project)

PUBLIC DOCUMENT

January 2004

Prepared for:

EPA

REGION 8

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CDM

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Summary Report
(Revision 0)

for

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Libby Sister Sites
Former Vermiculite Intermountain Facility-SLC2
Salt Lake City, Utah

EPA Region VIII

January 2004

Contract No. DTRS57-99-D-00017
Task Order No. C0023

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Volpe Center Project Manager

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Floyd Nichols
EPA On-Scene Coordinator

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Section 1
Introduction

1.1 Purpose and Objectives

The purpose of this report is to summarize the physical characteristics collected during the pre-design inspection (PDI) for the Artistic Printing facility (adjacent to the former Vermiculite Intermountain facility - SLC2 [site]). All work associated with the Artistic Printing PDI was conducted in accordance with the Air Monitoring and Pre-Design Inspection Sampling and Analysis (SAP) Addendum (CDM Federal Programs Corporation [CDM] 2003a) to the Sap (Revision 2) for the site (CDM 2003b). There were no deviations from the SAP addendum for this inspection.

The objective of the PDI was to capture building attributes (e.g., contents, dimensions, floor plans, etc.) on the structure currently used by Artistic Printing, Inc. In addition, digital photographs (Attachment A) and video (Attachment B) were also recorded. The contents of this report will be used for planning remedial cleanup actions. The building is located near a former vermiculite processing facility which no longer exists. Previous air and dust sampling efforts revealed elevated levels of Libby amphibole (LA) asbestos within the interior of the building (CDM 2003c).

1.2 Background

The reader is referred to the Summary Addendum Report (Revision 1), Former Vermiculite Intermountain Facility-SLC2 (CDM 2003c) for background information, including the possible source of the asbestos contamination, environmental setting, previous investigations, and a description of the contaminant of concern.

1.3 Location and Operation

Artistic Printing is located at 377 W 100 S Street just south of the Delta Center. Mr. Bill Benson owns and manages the printing business. There are 24 full time employees and the business is open five days a week, Monday through Friday.

Section 2
Building Details

2.1 Pre-Design Inspection

The PDI was completed on December 2, 2003 by Thomas Cook and Frank Morris (CDM). Other government representatives onsite were Craig Myers (Environmental Protection Agency [EPA]) and Paul Kudarauskas (Department of Transportation [DOT], Volpe Center). During the visit, air and dust samples were also collected. Details of the air and dust sampling event are not included in this summary report.

The building measures approximately 18,500 square feet (ft^2) and is roughly the shape of a rectangle (Figure 1). However, the southern end of the building is in the shape of a rounded convex curve as it borders the location of a former railroad spur that served the former processing facility. It is a single-story building constructed of brick with painted slump stone masonry walls and a built up flat roof. The calibrating portion of the building does not have an attic area but does contain storage space above the pre-press room. It is estimated that the building contains approximately 27,750 ft^2 of horizontal surfaces to clean. This area includes the total floor space plus table/counter space, estimated at 50 percent of the total floor area.

The building is approximately 90 years old and is in relatively good shape. There do not appear to be any major structural concerns; however, there are a few miscellaneous cracks in both the interior and exterior walls, most likely due to settling.

The main entrance to the building is located along the northern wall, leading into the office area (Figure 1). Other building entrances include a proper doorway along the west wall, two loading dock doors along the north wall, and two unused bay doors along the southern wall. A chain link fence securing a large Utah Transit Authority (UTA) transformer has been erected approximately 2 feet (ft) from the southern end of the building. There are operable windows (historically opened) along most of the exterior walls. The interior walls are constructed of painted slump stone masonry. The floors are made of finished concrete. The ceiling is approximately 15 ft high with open joists.

The interior of the building can be sectioned into four functional spaces. The functional spaces consist of:

- Office area (northwest section of building)
- Press room (west section of building)

- Binding room (east section of building)
- Pre-press room (located within the binding room)

2.1.1 Office Area

The office area is located in the northwest section of the building (Figure 1). The office area is a tenant improvement within the building, made from wood construction with drywall/wood paneling partition. It measures approximately 1,400 ft^2 and is divided into 1 large office, 4 smaller offices/storage rooms, 2 restrooms, and a receptionist area. The entire volume of air space within the office area is approximately 11,200 cubic feet (ft^3).

The office area has wall-to-wall carpet throughout. There is a main entrance (single glass door) to the building/office area along the north wall. There are two proper doorways along the southern office wall leading into the press room. In addition, there are 3 windows along the north and 4 windows along the west exterior walls.

The office area is an enclosed space and is separate from the common air space within the other functional spaces. The ceilings are approximately 8 ft high. There is attic space between the ceiling of the office area and ceiling of the main structure. The attic was inspected during a previous site visit and does not contain vermiculite-containing insulation (VCI).

The offices and reception area are furnished with typical office equipment (e.g., computers, printers, desks, filing cabinets, etc.). In addition, there are various calendars, pictures, and other items hanging on the walls. There is an abundance of stacked papers, files, books, and other paper products in each office. The photographs (Attachment A) illustrate the contents of the office area.

2.1.2 Press Room

The press room is located in the western section of the building (Figure 1). The press room is where the main printing operation takes place. It consists of a large, open work area, storage area, and partitioned ink room. The room measures approximately 8,800 ft^2. The ceiling is approximately 15 ft high throughout most of the room. Along the center of the ceiling, there is a ventilation window raised 6 ft high with a 30 degree pitch on the east side and a window on the west side. The entire volume of air space within the press room is approximately 132,000 ft^3.

The press room is divided from the binding room by a painted brick masonry wall extending from the ground to the ceiling. There are two large (8 x 15 ft) open entrances (no doors) on the north and south ends of the wall leading to the binding room. In addition, there is a proper doorway leading to the pre-press room. An exterior entrance (glass door) exists along the west wall adjacent to the office area. There are 5 windows along the western wall and several operable windows along the

curved southern wall. The two bay doors along the southern wall are not longer accessible.

The press room contains three main pieces of printing equipment (Attachment A, photographs 1 through 4). These consist of a sheeter, six-color printing press, and a two-color printing press. Mr. Benson expressed concern for protection of the two printing presses during the removal operations. Specifically, he was concerned that debris and/or dust would be introduced to some of the printing press intricacies during cleanup and clearance activities. He suggested that the two printing presses be covered with poly sheeting before aggressive cleaning activities are conducted. The printing press machines are large and encompass most of the room. There are several control units and electrical conduits throughout. As part of the printing operation, corn starch is applied at various stages of the printing process. Because of this, there is a corn starch residue throughout most of the press room, especially around the perimeter of and underneath the printing presses. Effective cleaning methods for the printing presses may include vacuuming the machines with a backpack vacuum equipped with a high efficiency particulate air (HEPA) filter.

In addition to the printing equipment, there are tools, computers, printer repair parts, and inventory (e.g., paper rolls, ink, etc.) maintained in the room. Some items are no longer used as part of the printing operation. Mr. Benson mentioned that he would mark items that are no longer in use. Pending EPA approval, these items may be disposed of as contaminated debris and not cleaned.

The loading dock is located on the north end of the press room and east of the office area (Figure 1). There is a 17.5 x 10 ft open entrance (no door) to the loading dock. There are vertical plastic strips separating the loading dock from the press room (missing some strips). The loading dock external entrance consists of a large 18 x 15 ft rollup bay door. The loading dock is used primarily for shipping and receiving inventory for the printing operation. There is no significant inventory stored in the loading dock.

The ink room, located in the southwestern section of the press room, consists of an open air (i.e., no ceiling) room, measuring approximately 430 ft^2, sectioned off by a 10 ft high wood frame partition (Attachment A, photograph 5). The ink room is stocked with various sizes of cans of paint, solvents, and ink. It should be noted that some of the aforementioned products may be considered hazardous waste (for disposal purposes). Also within the ink room, there are miscellaneous tools (i.e., nuts, bolts, hoses, etc.) and work benches.

The business owner previously affixed poly sheeting to the ceiling for purposes of preventing particulate matter from falling into sensitive printing equipment during roof repair several years ago. The poly sheeting no longer has a useful purpose and can be removed during cleaning activities.

2.1.3 Binding Room

The binding room is located in the eastern section of the building. It is separated from the press room by a wall as discussed in Section 2.1.4. The binding room is where printed material is processed to a finished product. It consists of a large open work area, loading dock (bay), storage area, and a tenant improvement (pre-press room) along the western wall (Section 1.4.4). The binding room measures approximately 7,350 ft^2, not including the pre-press room. The ceiling is approximately 15 ft high throughout most of the room. Along the center of the ceiling, there is a ventilation window raised 6 ft high with a 30 degree pitch on the east side and a window on the west side. The entire volume of air space within the binding room is approximately 110,250 ft^3.

There is a storage area in the northern section of the binding room (Attachment A, photograph 11). This is where the main inventory for the printing operation is stored. Another loading dock is directly west of the storage area. There is a 7 x 5 ft door along the southern wall of the loading dock. The loading dock external entrance consists of a roughly 8 x 10 ft sliding bay door. This loading dock is primarily used to store film negatives, an antique car, delivery truck, and miscellaneous files (Attachment A, photograph 9). In addition, the room is used to store the main trash receptacle (dumpster).

There are no primary external entrances except for the bay door as previously mentioned. There are two windows along the east wall and two windows along the northern wall of the binding room.

The finishing equipment includes an automatic folder, binder, collator, shrink wrap oven, and a cropping machine (Attachment A, photographs 12, 16, and 17). In addition, there are sheets and rolls of paper stored in the binding room. The employee break area is located in the southeastern section of the binding room. There are no walls separating the break area which includes a folding table, chairs, microwave, and a soft drink machine.

According to Mr. Benson, there are no special concerns for cleaning activities within the binding room.

2.1.4 Pre-Press Room

The pre-press room is located within the binding room (Section 2.1.3). This room is used to generate plates to be used in the printing process. It consists of a wood frame (painted plywood) tenant improvement and is considered to be a separate functional space from the binding room. It measures 1,380 ft^2 with 8.5 ft high ceilings. The approximately 5 ft high space above the pre-press room ceiling is used for storing

miscellaneous items (i.e., boxes, files, etc.) and is considered common airspace with the binding room. The total volume of the pre-press room is approximately 11,730 ft^3.

The walls and ceiling of the pre-press room consist of painted sheetrock and the floor is finished concrete (Attachment A, photograph 10). There is a separate room in the southern end of the pre-press room that serves as a black room (film development). The are two entrances to the pre-press room. These consist of two swinging doors along the north wall, leading to the binding room and a proper doorway in the western wall, leading to the press room. There are no windows within the pre-press room.

There are several personal computers, a server, and a computer-to-plate laser printer that takes up the majority of the room. The black room has a sink, benches, and other film developing equipment. Mr. Benson requested that the cleanup contractor be extremely careful when cleaning the pre-press room.

2.2 HVAC System

The heating, ventilation, and air conditioning (HVAC) system is different for each functional space. The binding room is cooled by 2 roof-mounted evaporative coolers. The room is heated by 3 gas powered ceiling-mounted forced air heaters. The press room is cooled by 3 roof-mounted evaporative coolers and heated by 1 similar heater. In addition, each room is equipped with an operational antiquated humidifier.

The pre-press room is heated and cooled by a separate HVAC system. Makeup air for the pre-press room HVAC system is supplied by return vents within the room as well as an external vent. According to Mr. Benson, the pre-press room is under positive pressure due to the sensitive electronic equipment used in the room. However, no tests were performed to confirm or measure pressure differences.

The office area also has a separate HVAC system. The makeup and return air registers are located within the office area.

2.3 Utilities

The primary electrical power shutoff box is located on the eastern wall of the binding room (Figure 1). There are several electrical wire conduits that service the office area and printing equipment in the press room. Water sources are located throughout the building.

Section 3
References

CDM. 2003a. Air Monitoring and Pre-Design Inspection SAP Addendum, Revision No. 1 to the Sampling and Analysis Plan, Revision No. 2, Salt Lake City, Utah. December.

CDM. 2003b. Sampling and Analysis Plan for Libby Sister Sites, Former Vermiculite Intermountain Facility-SLC2, Revision No. 2, Salt Lake City, Utah. September.

CDM. 2003c. Summary Addendum Report (Revision 1) Former Vermiculite Intermountain Facility - SLC2, 100 South 333 West, Salt Lake City, Utah, November.

Figure

R:\Cadd\2803\023\002\SL002\Artistic-Printing.dwg 01/15/04 JAY

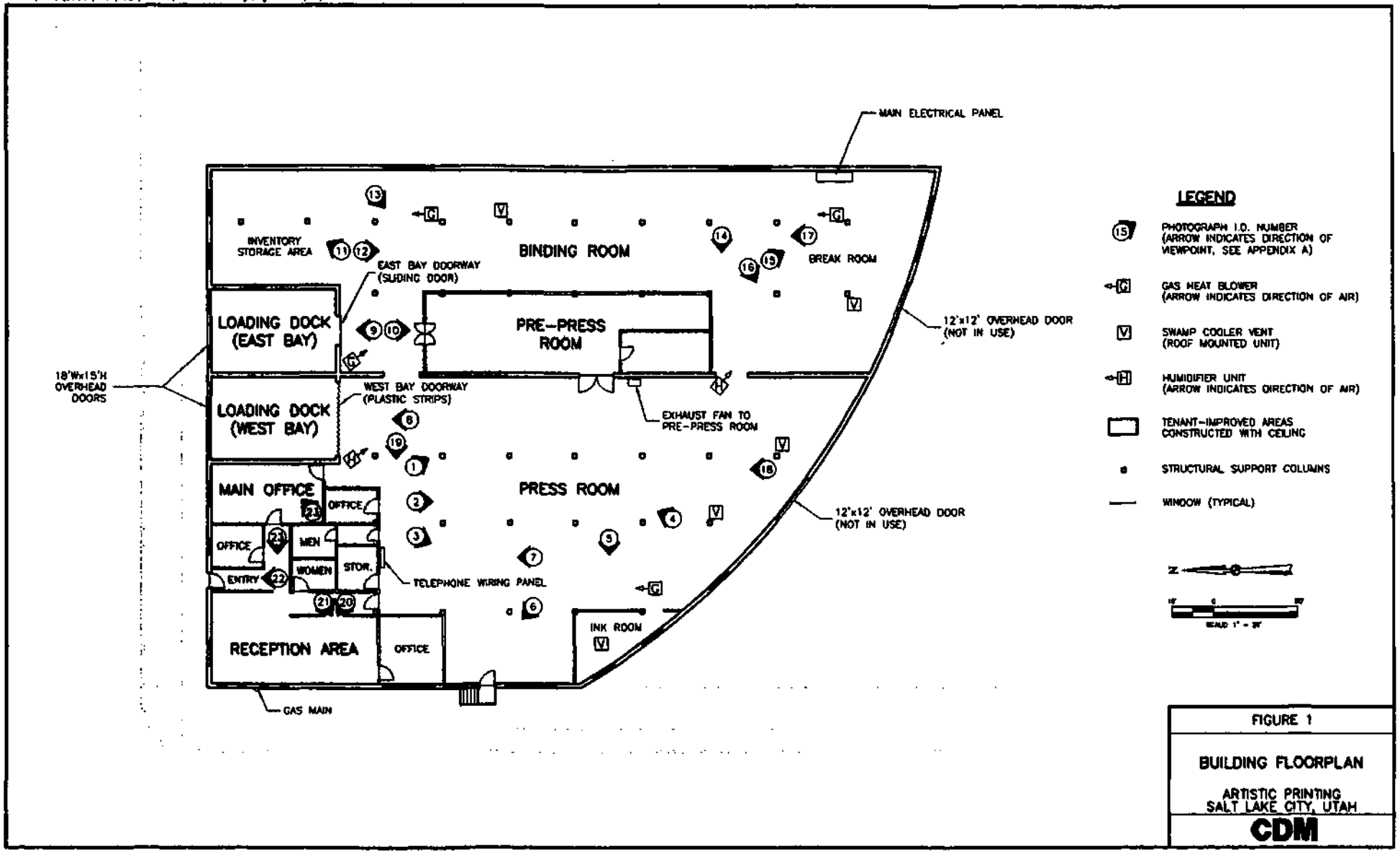

FIGURE 1

BUILDING FLOORPLAN

ARTISTIC PRINTING
SALT LAKE CITY, UTAH

CDM

Attachment A
Photographs

Color Photo(s)

The following pages contain color that does not appear in the scanned images.

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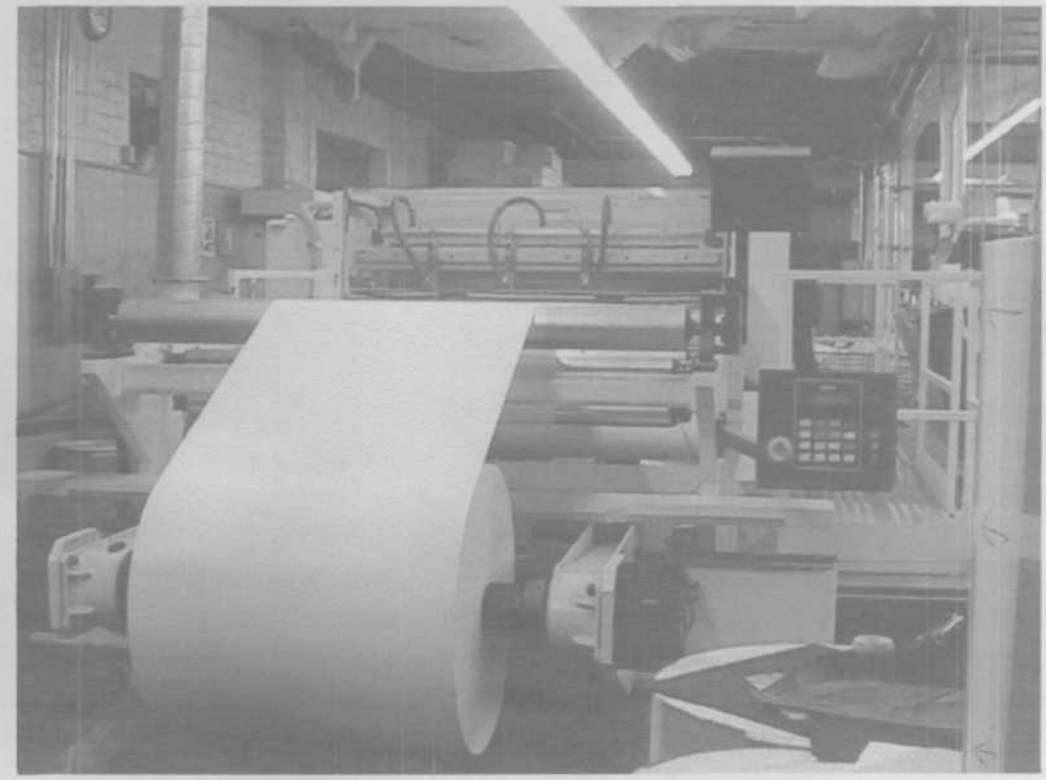
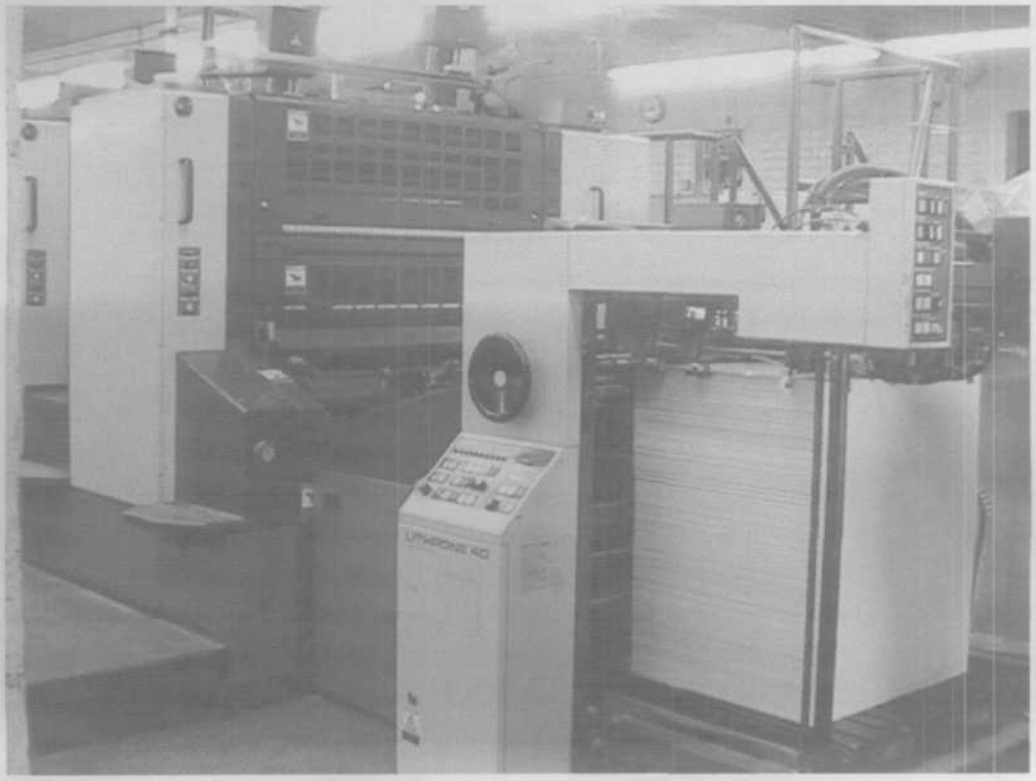


1. Automatic sheeter in press room (looking south). Note poly cover on ceiling.

2. Six-color printing press in press room (looking south).

3. Two-color printing press in press room (looking southwest).

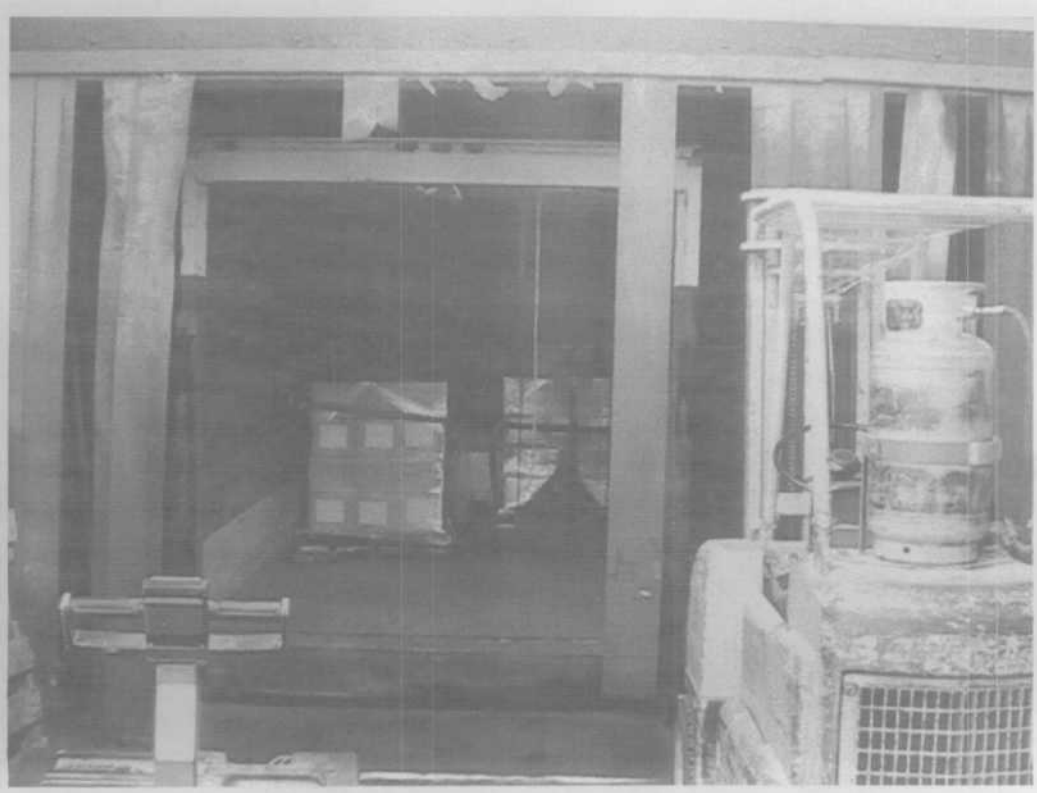


4. Six-color printing press in press room (looking northeast).

5. Ink room (looking west).

6. Exterior entrance along west wall (looking northwest).

7. South wall of office area (looking north). Doorway in foreground leads to men's restroom.



8. West bay loading dock (looking north). Note vertical plastic strips.

9. East bay loading dock (looking north). Note the stacks of negatives in case along west wall.

10. Pre-press room contents (looking south).

11. Storage area in northeast corner of binding room (looking northeast). Note inventory of paper and boxes of miscellaneous supplies.

12. Binding room contents (looking south). Note pre-press room on right side of picture and pitch in roof.

13. Exterior walls of pre-press room (looking southwest). Note items stored on roof of the pre-press room.

14. South entry between binding room and press room (looking west). Note lockers along south wall of pre-press room.

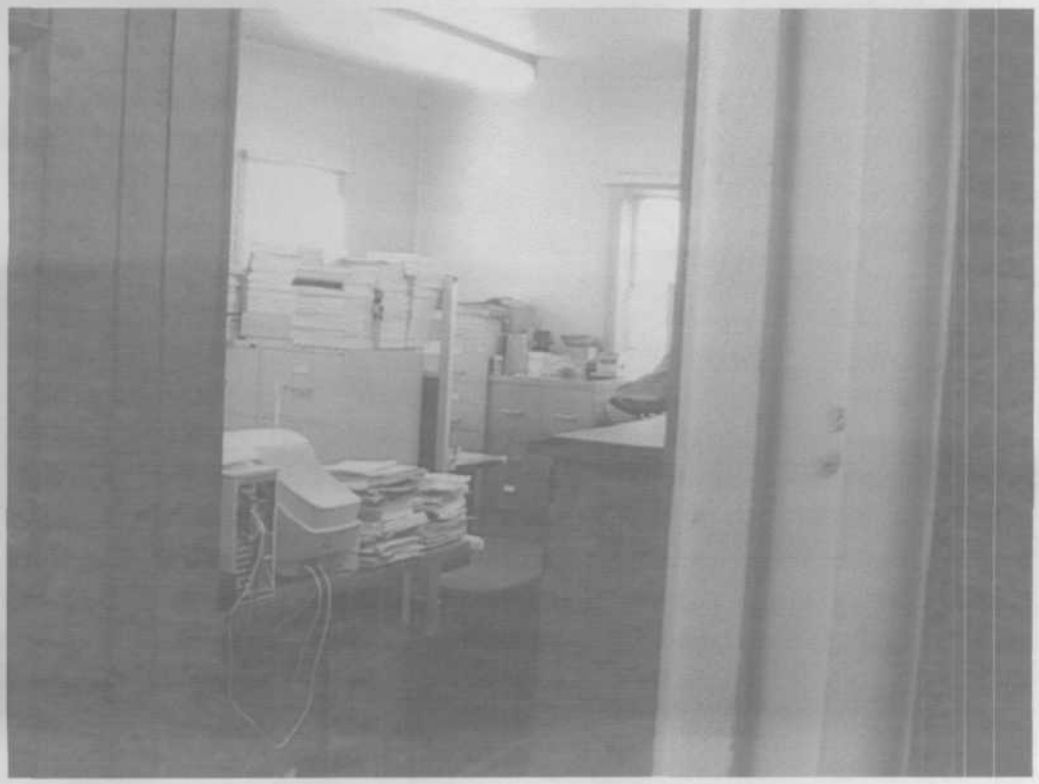
15. Break area in southeast corner of binding room (looking southeast). Note main electrical panel along the east wall.

16. Automatic folding machine in southern portion of the binding room (looking west).

17. Binding room contents (looking north).

18. Press room contents between six-color press and sheeter (looking north).

19. Southern wall of office area (looking west). Note the three proper doorway entrances and phone/network panel along the south wall.



20. Office (reception) area contents (looking northwest).

21. Office (reception) area contents (looking southwest).

22. Exterior entrance along north wall (looking north).

23. Hallway leading to reception area (looking west).

24. Main office contents (looking northeast).

TARGET SHEET

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